If not shown, please enter your 11-digit Census File Number from the address label on page 1

Census File Number

#### Item 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997

#### **INSTRUCTIONS**

1. General - The materials, parts, and supplies listed below are those commonly consumed in the manufacture, processing, or assembly of the products listed in item 18B. Please review the entire list and report separately each item consumed. Leave blank if you do not consume the item. If you use materials, parts, and supplies which are not listed, describe and report them in the "Cost of all other materials..." line at the end of this section. If you consumed less than \$25,000 of a listed material, include the value with "Cost of all other materials...," Census material code 970099 8.

Report materials, parts, and supplies purchased, transferred from other plants of your company, or withdrawn from inventory.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Materials Consumed – The value of the materials, etc., consumed should be based on the delivered cost; i.e., the amount paid or payable after discounts and including freight and other direct charges incurred in acquiring the materials.

Materials received from other plants within your company should be reported at their full economic value (the value assigned by the shipping plant, plus the cost of freight and other handling charges).

If purchases or transfers do not differ significantly from the amounts actually put into production, you may report the cost of purchases or transfers. However, if consumption differs significantly from the amounts purchased or transferred, these amounts should be adjusted for changes in the materials and supplies inventories by adding the beginning inventory to the amount purchased or transferred and subtracting ending inventory.

- 3. Contract Work Include as materials consumed those you purchased for use by others making products for you under contract. Amounts paid to the companies doing the contract work should be reported in item 10, line e, and should include freight in and out. On the other hand, materials owned by others but used at this establishment in making products for others under contract or on commission should be excluded.
- 4. Resales Cost for products bought and sold or transferred from other establishments of your company and sold without further manufacture, processing, or assembly should be reported in item 10, line b, not in item 17 below. The value of these products shipped by this establishment should be reported in item 18B under Census product code 99989 00 6, "Resales."
- **5. Produced and Consumed** Forgings, foundries, and screw machine products Report the quantities produced and used in manufacturing other products made in this establishment in item 19. Note that the materials used to produce these items should be reported in item 17.

line No		Materials, parts, and supplies	Census material code	purchase and of received establishm con Cost, inclu cost (f	Imption of ed materials f materials I from other ments of your mpany uding delivery freight-in)		
<u>.</u>		(A)	( <b>B</b> )	574 Millions	Thou- sands		
1	IVIE I/ VE	Sheet metal products (except stampings)	344401 5	\$	1		
2	PRODUCTS (Except forgings)	Bolts, nuts, screws, washers, rivets, and screw machine products	345001 2				
3		Metal stampings	346901 2		1 		
4		All other fabricated metal products	340063 7		 		
5	Forgings	346000 3		[			
6	Castings (rough	and semifinished)	330091 0		   		
7	SHAPES AND FORMS (Except	Steel	331002 6		[   		
8	castings and	Copper and copper-base alloy	335105 3		 		
9		Aluminum and aluminum-base alloy	335001 4		i I	 	
10		Other nonferrous shapes and forms	335099 8		   	 	
1	COMPONENTS	Printed circuit boards	367201 1		[ [		
12	ELECTRONIC CIRCUITRY, EXCEPT TUBES	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	367981 8		 		
13	3	Semiconductors, including transistors, diodes, rectifiers, and integrated circuits	367408 2		 		
14		Capacitors	367501 4		 		
1!	5	Resistors	367601 2		 		
10	5	Other components and accessories, n.e.c.	367990 9		 		

**CONTINUE WITH ITEM 17 ON PAGE 6** 

						. 0
lt	em 17. CONSUMPTION OF SELECTED MATERIALS DURING 1997 – Continued					
Line No.	Materials, parts, and supplies	ma c 571	ensus aterial ode	Consumption of purchased materials and of materials received from other establishments of you company  Cost, including delive cost (freight-in)  (E)  574    Thou-		
	(A)		(B)	Millions	sands	Dollars
17	Insulated wire and cable (including magnet wire)	335	5796 9	\$		
18	Current-carrying wiring devices	364	300 4		 	 
19	Fractional horsepower electric motors (less than 1 hp)	362	2111 7		i I	
20	Electronic communication equipment	366	301 0		l I	
21	Electrical instrument mechanisms and meter movements (including instrument relays)	382	2501 5			
22	Electronic computing equipment	357	010 8		 	 
23	Optical instruments and lenses (except sighting, tracking, and fire control)	382	2700 3		 	
24	Automatic garage door controllers	369	981 6		[ [	 
25	Fabricated plastics products (except gaskets, hoses, and belting)	308	3004 1		i I	
26	Paper and paperboard containers (including shipping sacks and other paper packaging products)	260	0091 4		 	
27	Cost of all other materials and components, parts, containers, and supplies consumed	970	0099 8		i I	
	Describe the principal materials, etc., included in this value.					   
					1	 
					i	 
					l I	 
28	<b>TOTAL</b> Sum of lines 1–27 should equal item 10, line a			\$	l I	
lt	em 18A. PRODUCTION OF FLEXIBLE CORD SETS AND APPLIANCE		Mark	(X) appro	priate bo	exes
	WIRE AND CORD IN THIS ESTABLISHMENT DURING 1997	Key		es	No	
1.	Are flexible cord sets and appliance wire and cord (see line 15, item 18B) produced in this establishment?	401	5504		5520	]
2.	If "Yes" is marked, please answer questions 2 and 3:  Were these products made primarily from wire insulated in this establishment?	402	5553		5561	
3.	Were these products made primarily from purchased insulated wire or insulated wire received from other plants of your company?	403	5652		5660	

# **CONTINUE WITH ITEM 18B ON PAGE 7**

If not shown, please enter your 11-digit Census File Number from the address label on page 1

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### Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997

#### **INSTRUCTIONS**

 General – The manufactured products and services listed below are generally made in your industry. If you make products that are not listed, describe and report them in the "All other products made in this establishment" section at the end of item 18B. PLEASE DO NOT COMBINE PRODUCT LINES.

If quantities are requested, please use the unit of measure specified.

If the information as requested cannot be taken directly from your book records, REASONABLE ESTIMATES ARE ACCEPTABLE.

2. Valuation of Products – Report the value of the products shipped and services performed at the net selling value, f.o.b. plant to the customer; i.e., after discounts and allowances, and exclusive of freight charges and excise taxes.

If you transfer products to other establishments within your company, you should assign the full economic value to the transferred products; i.e., include all direct costs of production and a reasonable proportion of all other costs and profits.

3. Contract Work – Report PRODUCTS MADE BY OTHERS FOR YOU FROM YOUR MATERIALS on the specific lines as if they were made in this establishment. On the other hand, do not report on the specific product lines

PRODUCTS THAT YOU MADE FROM MATERIALS OWNED BY OTHERS. Report only the amount that you received for "commission or contract receipts" under Census product code 93000 00 8.

- 4. Resales Do not report on the specific product lines those PRODUCTS BOUGHT AND SOLD OR TRANSFERRED FROM OTHER ESTABLISHMENTS OF YOUR COMPANY AND SOLD WITHOUT FURTHER MANUFACTURE. Report only a value under Census product code 99989 00 6, "Resales."
- 5. Detailed Data Reported Elsewhere Items denoted by an asterisk (\*) require totals for groups of products covered in the more frequent Current Industrial Reports (CIR). If you report on the CIR forms, the sum of the detailed CIR products should equal the total reported on this census form. The Current Industrial Reports related to this report are as follows:
  - a. MA33L, Insulated Wire and Cable
  - **b.** MA35R, Computers and Office and Accounting Machines
  - c. MA36K, Wiring Devices and Supplies
  - d. MA36P, Communication Equipment, Including Telephone, Telegraph, and Other Electronic Systems and Equipment
  - e. MA36Q, Semiconductors, Printed Circuit Boards, and Other Electronic Components
  - f. MA38B, Selected Instruments and Related Products

**NOTE:** Only CIR totals are requested; do not duplicate detail reported on the CIR.

	Products and services  *Item corresponds to products reported on Current Industrial Reports				nds to the sum	Products shipped and other receipts					
No.			Census product code		97 on –	Value, f.o.b. plant (E)					
Line No.			581	CIR form	Codes	584 Millions	Thou-	Dollars			
		(A)		(B-1)	(B-2)	(B-3)	Willions Sand		Dollars		
1	Electronic teaching machines, teaching aids, trainers, and simulators, including kits (36991)*		36991 00 8	MA36P	4416–4418	\$	i				
2	Laser Systems and	Search and dete	ection equipment	36992 11 3							
3	Equipment (Except communi-	Analytical and sexcept optical	scientific instruments,	36992 13 9							
4	cation) (36992)	Sighting and tra	acking equipment	36992 21 2				 			
5		Commercial, ge meterological in	eophysical, and nstruments	36992 23 8							
6		Surveying and	drafting equipment	36992 25 3							
7		INDUSTRIAL	Welding equipment	36992 91 5				 			
8			Boring and drilling equipment	36992 31 1				 			
9			Gear cutting machines	36992 33 7							
10			Textile printing equipment	36992 41 0				<u> </u>			
11			Printing presses	36992 43 6							
12			Etching and engraving equipment	36992 45 1					1		
13			Photographic equipment	36992 51 9				<u> </u>			
14			Holographic equipment	36992 53 5				 			
15			Quality control equipment	36992 55 0				 			
16		MEDICAL	Electromedical	36992 61 8				i 			
17	(Continued on next page)		Dental	36992 65 9							
	CONTINUE WITH ITEM 18B ON PAGE 8										

It	Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 – Continued										
		Draduate and consists			nds to the sum	Product and oth	Products shipped and other receipts				
No.	*Item	Products and services corresponds to products reported on Current Industrial Reports	Census product code		97 on –	(	Value, f.o.b. plant (E)				
Line		(A)	581 <b>(B-1)</b>	CIR form ( <b>B-2</b> )	Codes ( <b>B-3</b> )	Millions	Thou- sands	Thou-   Dollars			
18	Laser Systems and Equipment	Bar code scanners/readers*	35771 00 5	MA35R	3752	\$	 				
19	/Eveent	Laser sources*	36992 71 7	MA36P	5212–5260		 				
20	<b>cation)</b> ( <b>36992)</b> – Continued	Laser components	36992 73 3				 				
21		Other	36992 97 2				 				
22	Ultrasonic equip	oment (except medical and dental) (36995)*	36995 00 9	MA36P	5305		 				
23	l automatic garac	ms and equipment, n.e.c. (including le door openers, and amplifiers, except r, and video) (36999)*	36999 00 1	MA36P	5420–5435		     	 			
24	Christmas tree I	ighting sets	36996 01 5				I I	 			
25	primarily from p	tus wire and cordage (manufactured purchased insulated wire) <b>(36996)</b>	36996 05 6				   				
26	ELECTRICAL PRODUCTS, N.E.C.	Electrical door openers, except garage door openers	3699A 05 7				 				
27	(Excluding garage door	Electric gongs, chimes, bells, etc.	3699A 01 6				 	 			
28	openers) (3699A)	Electric insect repellent lamps	3699A 02 4				[ [	 			
29		Electric insect killers	3699A 03 2				 				
30		Electrical outboard motors for boats (complete propulsion unit)	3699A 07 3				 	 			
		Other electrical products, n.e.c. – Specify kind					[ [ [	 			
31			3699A 21 4								
32	Switches for ele vehicular) (3643	ctrical circuitry (including 33)*	36433 00 1	MA36K			] 	l I			
33	but including m	systems and equipment, except broadcast, icrowave equipment such as transmitters, mplifiers, and space satellites (36631)*	36631 00 0	$\uparrow$			 	i !			
34	Broadcast, studi (36632)*	o, and related electronic equipment	36632 00 8	MA36P			   				
35	Alarm systems, (36691)*	including electric sirens, and horns	36691 00 4	$\downarrow$			! 				
36	PRINTED CIRCUIT BOARDS OR ASSEMBLIES (Report contract work	Printed circuit (wiring) boards (36720)*	36720 00 1	<b>^</b>	8602–8637		         				
	receipts for work done by you for others on their own materials on	Printed circuit assemblies, loaded boards or modules (printed circuit		MA36Q			       				
37	lines 46 and 47)		36798 00 7		8751–8790						
38	supply converet	components n.e.c. (including static power ers and cable harness assemblies)*	36799 20 3	<b>1</b>	9713–9745		 				
39	Search and dete equipment (381	ection, navigation and guidance systems and 22)*	38122 00 8	<b>1</b>	4202–4382		 				
40	Test equipment communications	for testing electrical, radio and scircuits, and motors (38252)*	38252 00 3	MA38B	5701–5849		 				
41	Optical instrume and fire control instruments)*	ents and lenses (except sighting, tracking instruments, binoculars, and astronomical	38274 20 5		8221–8245		 	 			

## **CONTINUE WITH ITEM 18B ON PAGE 9**

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## Item 18B. PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1997 - Continued

					nds to the sum	Products shipped and other receipts			
	Products and services  *Item corresponds to products reported on Current Industrial Reports		Census product code		ts reported for 97 on –	Value, f.o.b. plant <b>(E)</b>			
Line No.			581 ( <b>B-1</b> )	CIR form ( <b>B-2</b> )	Codes (B-3)	584 Millions	Thou- sands	l Dollars	
	ALL OTHER PRODUCTS MADE IN THIS ESTABLISH- MENT	Describe and report separately each product with a sales value of \$50,000 or more which cannot be assigned to one of the lines above. For all remaining products, write "Other" and report a single total value.					             		
42			18			\$	   		
43			26				 		
44			34				 		
45			42				   		
46			59				 		
47	CONTRACT WORK	Printed circuit (wiring boards)*	93000 31 3				   		
48	(Receipts for work done for others on their own materials)	Printed circuit assemblies, loaded boards or modules (printed circuit boards with inserted electronic components)	93000 32 1				     		
49		Receipts for work done for others on their own materials	93000 00 8				 	 	
50	MISCELLA- NEOUS RECEIPTS	Receipts for research and developmental work	99980 41 9				 		
51	ILCEIF 13	Other miscellaneous receipts (including repair work, installation, sales of scrap and refuse)	99980 97 1				 		
52	RESALES	Sales of products bought and sold without further manufacture, processing, or assembly in this establishment. The cost of such items should be reported in item 10, line b.	99989 00 6				 	 	
53	<b>TOTAL va</b> Sum of lin	77000 00 8			\$	 			

**CONTINUE WITH ITEM 19 ON PAGE 10** 

I1	Item 19. SELECTED PRODUCTS PRODUCED IN THIS ESTABLISHMENT AND USED IN MANUFACTURING OTHER PRODUCTS MADE IN THIS ESTABLISHMENT										
1. Report below the quantity of each listed item produced in this establishment and used in manufacturing other products made in this establishment.  2. Purchases or receipts of the items specified below				<ul> <li>3. Materials used to produce the items specified below should be reported in item 17.</li> <li>4. Quantities produced for sale as such and not for incorporation in other products should be reported in item 18B.</li> <li>5. Report quantities in the unit of measure specified in</li> </ul>							
Line No.	should be	reported only in item 17.	orted only in item 17.			Census code  Was this operation performed at this establishment during 1997?				of ure ties	Quantities produced in this establishment and used in manufacturing other products made in this establishment
		(A)			591 <b>(B)</b>		Yes Yes	(C)	(D)	5	93 <b>(E)</b>
1	Ferrous foundri	es			1001	7	1	2	Sho ton:		
2	NONFERROUS FOUNDRIES	Aluminum			1002	5	1	2	1		
3	(Except die-casting)	Copper			1003	3	1	2			
4		Zinc			1004	1	1	2	Thous		
5		Other			1005	8	1	2			
6		casting foundries			1006	6	1	2	<b>\</b>		
7	Precision turned centers, and CN	d products (on screw machines IC equipment)	s, turning		1007	4	1	2			
I1	tems 20 and 2	<b>1 –</b> Not applicable to this re	eport								
1.	tom 22 CERTIE	EICATION This roport is sub	petantially	accura	to and h	as ho	on propar	ad in accord	danco	vith in	atructions.
	Item 22. CERTIFICATION – This report is substantially accurate and has been prepared in accordance with instructions.         Name of person to contact regarding this report (Print or type)       Area code       Number       Extension										
66			(FIINT OF	іуре)		lepho	one 2	street, city, S		<sup>2</sup> Code	Extension )
	or company	FROM: Month	Day	Yea			Month		Day		Year
	Period covered ignature of author	666 1	 	Title		2	-		, , 	Date	 